**PATENT** 

Attorney Docket No.: 021833-000200US Client Reference No.: Z8778-US FS/OC

## IN THE UNIDED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Rolf Freimann, et al.

Application No.: 10/637,217

Filed: August 8, 2003

For: METHOD FOR CALIBRATING AN INTERFEROMETER APPARATUS, FOR QUALIFYING AN OPTICAL SURFACE, AND FOR MANUFACTURING A SUBSTRATE HAVING AN OPTICAL SURFACE

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

Examiner: Unassigned

Art Unit: 2877

INFORMATION DISCLOSURE

STATEMENT UNDER 37 CFR §1.97 and

§1.98

The references cited on attached form PTO/SB/08A and PTO/SB/08B are being called to the attention of the Examiner. Copies of the foreign patent publications and non-patent references are enclosed. Cited reference no. 10, WO03/002933, is a PCT publication in the German language, a translation of this publication was included as an appendix in the present application.

It is respectfully requested that the cited references be expressly considered during the prosecution of this application, and the references be made of record therein and appear among the "references cited" on any patent to issue therefrom.

As provided for by 37 CFR §1.97(g) and (h), no inference should be made that the information and references cited are prior art merely because they are in this statement and no representation is being made that a search has been conducted or that this statement encompasses all the possible relevant information.

Applicant believes that <u>no fee is required</u> for submission of this statement. However, if a fee is required, the Commissioner is authorized to deduct such fee from the

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undersigned's Deposit Account No. 20-1430. Please deduct any additional fees from, or credit any overpayment to, the above-noted Deposit Account.

Respectfully submitted,

- Cloull

Robert C. Colwell Reg. No. 27,431

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RCC:rnh 60098894 v1

PTO/SB/08A (08-03) Substitute for form 1449A/PTO C mplete if Kn wn **Application Number** 10/637,217 INFORMATION DISCLOS Filing Date August 8, 2003 Rolf Freimann STATEMENT BY APPLICANT First Named Inventor Art Unit 2877 (use as many sheets as necessary) Unassigned **Examiner Name** Sheet of 021833-000200US Attorney Docket Number

1 US 2 US 3 US 4 US 5 US	mber Kind Code <sup>2</sup> ( <i>if known</i> ) 5-2002-0191193 5-2002/0063867 5-5,982,490 5-5,777,741	Publication Date MM-DD-YYYY 12-19-2002 05-30-2002 11-09-1999 07-07-1998	Name of Patentee or Applicant of Cited Document  Smirnov et al.  Otto  Ichikawa	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
2 US 3 US 4 US 5 US	S-2002/0063867 S-5,982,490 S-5,777,741	05-30-2002 11-09-1999	Otto	
3 US- 4 US- 5 US-	S-5,982,490 S-5,777,741	11-09-1999		
4 US- 5 US-	5-5,777,741		Ichikawa	
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6 115	S-5,488,477	01-30-1996	de Groot	
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7 US	S-5,361,312	11-01-1994	Kuchel	
8 US	S-4,732,483	03-22-1988	Biegen	
9 US	5-4,340,306	07-20-1982	Balasubramanian	

FOREIGN PATENT DOCUMENTS								
F	0.11-	Foreign Patent Document				Name of Patentee or	Pages, Columns, Lines,	
Examiner Cite Initials* No.1		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>6</sup> (if known)		Publication Date MM-DD-YYYY	Applicant of Cited  Document	Where Relevant Passages or Relevant Figures Appear	T⁵	
	10	PCT	WO03/002933	A1	01-09-2003	Carl Zeiss		⊠
	11	JP	2001-255115	Α	09-21-2001	Nikon Corp		⊠
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Examiner Signature		Date Considered	

Substitute for form 1449B/PTO

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Sheet	2	of	2	

Complete if Known			
Application Number	10/637,217		
Filing Date	August 8, 2003		
First Named Inventor	Rolf Freimann		
Art Unit	2877		
Examiner Name	Unassigned		
Attorney Docket Number	021833-000200US		

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials *	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T 2
	12	Al et al. "Measurement of the inhomogeneity of a window," Optical Engineering 30:1399-1404 (1991).	
	13	FREIMANN et al. "Absolute measurement on non-comatic aspheric surface errors," Optics Communication 161:106-114 (1999).	
	14	FRITZ "Absolute calibration of an optical flat," Optical Engineering 23:379-383 (1984).	
	15	HARIHARA "Interferometric testing of optical surfaces: absolute measure of flatness," Optical Engineering 36:2478-2481 (1997).	
	16	NING et al. "Fringe beating effects induced by misalignment in a white-light interferometer," Measurement Science & Technology. 7:700-705 UK (1996).	
	17	SCHWIDER et al. "Homogeneity testing by phase sampling interferometry," Applied Optics 24:3059-3061 (1985).	

Examiner	Date	
1		
Signature	Considered	

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Applicant's unique citation designation number (optional). Applicant is to place a check mark here if English language Translation is attached.